CONTENTS OF VOLUME 42

Number 1

Editorial	1	Mediocre Media *C. Sheppard*
News	3	IMO Raises Oil Pollution Compensation Limits; Microorganism Transfer in Ship's Ballast Water; NGOs Plead for Deep-Water Fish
	4	Protection for Sponge Gardens; Toxic Chemicals Discharge Into the Great Lakes to be Reduced
	5	Maine's Wild Atlantic Salmon an Endangered Species; Overfishing Blamed for Sea Lion Decline; EPA Fines University for Polluting Environment
	6	More Evidence of Global Warming
News-in-Brief	6	China; Kenya; UK; Nigeria
Reports	7	Coral Bleaching and Mortality on Artificial and Natural Reefs in Maldives in 1998, Sea Surface Temperature Anomalies and Initial Recovery *A. J. Edwards, S. Clark, H. Zahir, A. Rajasuriya, A. Naseer and J. Rubens*
	16	Scavenging of Thorium Isotopes in the Arctic Regions: Implications for the Fate of Particle-reactive Pollutants *M. Baskaran*
	23	Development and Validation of Biocriteria Using Benthic Macroinvertebrates for North Carolina Estuarine Waters *L. Eaton*
	31	*Clostridium perfringens* as a Potential Indicator for the Presence of Sewage Solids in Marine Sediments *C. Skanavis and W. A. Yanko*
	36	Composition, Distribution and Sources of Polycyclic Aromatic Hydrocarbons in Sediments of the Gulf of Trieste, Northern Adriatic Sea *M. Notar, H. Leskovšek and J. Faganeli*
	45	Holistic Environmental Assessment and Offshore Oil Field Exploration and Production *E. Salter and J. Ford*
	59	Changes in Macroalgal Communities in the Vicinity of a Mediterranean Sewage Outfall After the Setting Up of a Treatment Plant *D. Soltan, M. Verlaque, C. F. Boudouresque and P. Francour*
	71	Observations on the Effects of Barite on the Gill Tissues of the Suspension Feeder *Cerastoderma edule* (Linné) and the Deposit Feeder *Macoma balthica* (Linné) *M. J. Barlow and P. F. Kingston*
Conference Report	77	First National Conference on Marine Bioinvasions, Massachusetts Institute of Technology, Cambridge, Massachusetts, 24–27 January 1999 *J. B. Pearce*
Book Review	79	

Number 2

Editorial	81	The ENCORE Experiment *P. Hutchings*
News	83	CHaMP for English Coasts; Quality of Welsh Bathing Waters Improve; Concern over Latest Shipment of Nuclear Waste
	84	Sturgeon Species Face Extinction; Protection for Mangroves in Ecuador; Australian Funding to Tackle Introduced Species
	85	Hudson River Cleanup; New US Coastal Research and Monitoring Strategy; US Water Quality Criteria for Nutrients and Methylmercury
News-in-Brief	86	Mauritius; Philippines; South Africa; Norway; France; Scotland; Hawaii
Viewpoint	87	Ospar 98/3: An Environmental Turning Point or a Flawed Decision? *D. Bellamy and P. Wilkinson*
Reports	91	ENCORE: The Effect of Nutrient Enrichment on Coral Reefs. Synthesis of Results and Conclusions *K. Koop, D. Booth, A. Broadbent, J. Brodie, D. Bucher, D. Capone, J. Coll, W. Dennison, M. Erdmann, P. Harrison, O. Hoegh-Guldberg, P. Hutchings, G. B. Jones, A. W. D. Larkum, J. O'Neil, A. Steven, E. Tentori, S. Ward, J. Williamson and D. Yellowlees*
	121	Use of a Telemetered Dispensing System for Controlling Nutrient Additions to Experimental Patch Reefs in the ENCORE Study at One Tree Island, Great Barrier Reef, Australia *K. Koop, A. Steven, R. Mcgill, E. D. Drew and B. Macdonald*
	127	The 1997/1998 Mass Mortality of Corals: Effects on Fish Communities on a Tanzanian Coral Reef *U. Lindahl, M. C. Öhman and C. K. Schelten*
	132	DDT, PAH and PCB in Sediments from the Intertidal Zone of the Bohai Sea and the Yellow Sea *M. Ma, Z. Feng, C. Guan, Y. Ma, H. Xu and H. Li*
	137	Improvements in the Epifauna of the Crouch Estuary (United Kingdom) Following a Decline in TBT Concentrations *H. L. Rees, R. Waldock, P. Matthiessen and M. A. Pendle*
	145	Evidence for the Effects of Metal Contamination on the Intertidal Macrobenthic Assemblages of the Fal Estuary *R. M. Warwick*
	149	A New Approach for Detecting and Mapping Sewage Impacts *S. D. Costanzo, M. J. O'Donohue, W. C. Dennison, N. R. Loneragan and M. Thomas*
Baseline	157	Persistent Organic Pollutants in Oysters *Crassostrea gigas* and Sand Flathead *Platycephalus bassensis* from Tasmanian Estuarine and Coastal Waters *J. A. Mondon, B. F. Nowak and A. Sodergren*
Book Review	162	

Number 3

Editorial	163	Marine Eutrophication: The Need for a New Indicator System *G. Cognetti*
News	165	Narrow Escape for Galapagos; North Sea Cod Recovery Plan
	166	Rare Seabird on the Road to Recovery; Australian Marine Plan Moves Forward; Tasmanian Port Protection
	167	Los Angeles Sued over Sewage Spills; Potentially Harmful Human Viruses in US Coastal Waters; Threat From Released Aquarium Fish
	168	Clams Threatened by Water Extraction
News-in-Brief	168	Brazil; India; France; Hungary; Taiwan
Viewpoint	169	Predicting Effects of Toxic Chemicals in the Marine Environment *P. K. S. Lam and J. S. Gray*
Reports	174	Arsenic, Antimony, Selenium and other Trace Elements in Sediments of the La Paz Lagoon, Peninsula of Baja California, Mexico *E. Shumilin, F. Páez-osuna, C. Green-ruiz, D. Sapozhnikov, G. D. Rodríguez-meza and L. Godinez-orta*
	179	Contamination by Persistent Organochlorines and Butyltin Compounds in the West Coast of Sri Lanka *K. S. Guruge and S. Tanabe*
	187	Baseline Metal Concentrations in Coastal Labrador Sediments *G. Veinott, S. Perron-Cashman and M. Robin Anderson*
	193	Changes in the Marine Environment of Port Kembla Harbour, NSW, Australia, 1975–1995: A Review *Z. He and R. J. Morrison*
	202	Recovery of the Macrozoobenthic Community after Severe Dystrophic Crises in a Mediterranean Coastal Lagoon (Orbetello, Italy) *C. Lardicci, S. Como, S. Corti and F. Rossi*
	215	Chemical Forms of Pb, Zn and Cu in the Sediment Profiles of the Pearl River Estuary *X. Li, Z. Shen, O. W. H. Wai and Y.-S. Li*
	224	Trace Metals in Fish and Invertebrates of Three California Coastal Wetlands *T. Cohen, S. S. Que Hee and R. F. Ambrose*
	233	Photosynthetic Pigments and Peroxidase Activity as Indicators of Heavy Metal Stress in the Grey Mangrove, *Avicennia marina* (Forsk.) Vierh. *G. R. MacFarlane and M. D. Burchett*
	241	Composition and Distribution of Beach Debris in Orange County, California *S. L. Moore, D. Gregorio, M. Carreon, S. B. Weisberg and M. K. Leecaster*
Baseline	246	Persistent Organochlorine Concentrations in Sediment and Fish from Atlantic Coastal and Brackish Waters off Savannah, Georgia, USA *B. G. Loganathan, K. S. Sajwan, J. P. Richardson, C. S. Chetty and D. A. Owen*

Number 4

Editorial	251	Oil and Seabirds – the Imperative for Preventing and Reducing the Continued Illegal Oiling of the Seas by Ships *P. G. Wells*
News	253	WWF Calls for More Action on Global Warning; Disposal Ship Detained in Europe; Ducks to the Rescue
	254	Eruptions May Be Causing Flamingo Deaths; Brighter Future For Endangered Albatrosses; Shark Finning Bans Called For
	255	Cancer Drugs From Microalgae; Oiled Antarctic Penguins; New Regulations for Protection of US Coastal Waters
	256	New Bedford PCB Cleanup
News-in-Brief	256	Kenya; Taiwan; US
Viewpoint	257	Charging for Port Reception Facilities in North Sea Ports: Putting Theory into Practice *A. Carpenter and S. Macgill*
Reports	267	Box Coring Artifacts in Sediments Affected by a Waste Water Outfall *P. H. Santschi, L. Guo and L.-S. Wen*
	273	Contamination of Polychlorinated Biphenyls (PCBs) in Sediments from Kyeonggi Bay and Nearby Areas, Korea *K.-T. Lee, S. Tanabe and C.-H. Koh*
	280	PCB Concentrations and Metabolism Patterns in Common Terns (*Sterna hirundo*) from Different Breeding Colonies in The Netherlands *N. W. van Den Brink and A. (Bart) T. C. Bosveld*
	286	Assessment and Impact of Microbial Fecal Pollution and Human Enteric Pathogens in a Coastal Community *E. K. Lipp, S. A. Farrah and J. B. Rose*
	294	Can a Pollution Event be Detected Using a Single Biological Effects Monitoring Method? *H. von Westernhagen, V. Dethlefsen and M. Haarich*
	298	An Evaluation of Marine Bird Population Trends Following the *Exxon Valdez* Oil Spill, Prince William Sound, Alaska *B. K. Lance, D. B. Irons, S. J. Kendall and L. L. McDonald*
	310	Toxicity of Chromated Copper Arsenate (CCA)-Treated Wood to Non-Target Marine Fouling Communities in Langstone Harbour, Portsmouth, UK *C. J. Brown and R. A. Eaton*
	319	The Problem of Transfer of Radionuclide Pollution by Sea Ice *V. K. Pavlov and V. V. Stanovoy*
	324	Genotoxic Hazard of Pollutants in Cetaceans: DNA Damage and Repair Evaluated in the Bottlenose Dolphin (*Tursiops truncatus*) by the Comet Assay *F. Taddei, V. Scarcelli, G. Frenzilli and M. Nigro*
Baseline	329	Methylmercury in Molluscs Along the French Coast *D. Claisse, D. Cossa, J. Bretaudeau-Sanjuan, G. Touchard and B. Bombled*

Number 5

Editorial	333	Dredging Through the Remains *B. Morton*
News	335	New UK Fisheries Conservation Measures; Opposition to Release of G.M. Salmon; Warning on Tourism in the Mediterranean
	336	Shark Fishing Vessel Released from Detention; Global Marine Census Planned; Dugong Sanctuaries Appear to be Working
	337	Canada Prosecutes Oil Polluting Ship; Greater Snow Goose Cull Reduces Environmental Damage; Sonar Pollution Causing Concern
	338	Osprey Revival from DDT Complete in Chesapeake Bay; Alaskan Company Charged with Seafood Waste Pollution
Viewpoint	339	Historical Analysis, a Valuable Tool in Community-Based Environmental Protection *C. E. Pesch and J. Garber*
Reports	350	Evolution of Metal Pollution in the Golden Horn (Turkey) Sediments Between 1912 and 1987 *G. Tuncer, G. Tuncel and T. I. Balkas*
	361	İzmit Bay (Turkey) Ecosystem after Marmara Earthquake and Subsequent Refinery Fire: the Long-term Data *O. S. Okay, L. Tolun, F. Telli-Karakoç, V. Tüfekçi, H. Tüfekçi and E. Morkoç*
	370	Occurrence and Effects of Organotins on Adult Common Whelk (*Buccinum undatum*) (Mollusca, Gastropoda) in Harbours and in a Simulated Dredging Situation *J. Svavarsson, Å. Granmo, R. Ekelund and J. Szpunar*
	377	PCBs and Organochlorine Pesticide Residues in Eggs of Audouin's Gull (*Larus audouinii*) in the North-Eastern Mediterranean *V. Goutner, T. Albanis, I. Konstantinou and K. Papakonstantinou*
	389	Metal Levels in Seston and Marine Fish Flesh Near Industrial and Metropolitan Centres in South Australia *J. W. Edwards, K. S. Edyvane, V. A. Boxall, M. Hamann and K. L. Soole*
	397	Trace Element Studies in Laucala Bay, Suva, Fiji *R. J. Morrison, S. P. Narayan and P. Gangaiya*
	405	Brown Tides and Mariculture in Saldanha Bay, South Africa *T. Probyn, G. Pitcher, R. Pienaar and R. Nuzzi*
	409	Contamination of the Coastal Waters of Bermuda by Organotins and the Triazine Herbicide Irgarol 1051 *D. P. Connelly, J. W. Readman, A. H. Knap and J. Davies*
Note	415	Mercury and Silver Concentrations in Sediments from the Port of Ensenada, Baja California, Mexico *L. B. Carreón-Martínez, M. Angel Huerta-Diaz, C. Nava-López and A. Siqueiros-Valencia*

Number 6

Editorial	419	China's Dugongs *B. Morton*

News	421	Greenpeace Warns of Toxic Pollutants Contaminating The Baltic; Australian Anti-fouling Ship Trials; Japanese Whaling Under Attack by WWF
	422	Ocean Warming is Caused by Humans; EU Fishing Rights in Senegal Waters Causes Concern; Fly Ash Attracted to Heavy Metals
	423	Alaska Cleans Up Its Tour Companies; Stressed Fish to be Identified by a New Test; Salmon Extinction in Controversy
	424	Long Island Sound Water Cleanup
News in Brief	424	Uganda; Turkey; UK; Russia
Viewpoint	425	Managing Coastal Bathing Water Quality: The Contribution of Microbiology and Epidemiology *M. A. Efstratiou*
Reports	433	Dispersion and Toxicity to Non-target Aquatic Organisms of Pesticides Used to Treat Sea Lice on Salmon in Net Pen Enclosures *W. Ernst, P. Jackman, K. Doe, F. Page, G. Julien, K. MacKay and T. Sutherland*
	445	Hydrocarbon Contamination of Coastal Sediments from the Sfax Area (Tunisia), Mediterranean Sea *A. Louati, B. Elleuch, M. Kallel, A. Saliot, J. Dagaut and J. Oudot*
	453	Evidence for Polychlorinated Biphenyls Dechlorination in the Sediments of Sado Estuary, Portugal *O. Gil and C. Vale*
	462	The Effect of Ship Scrapping Industry and its Associated Wastes on the Biomass Production and Biodiversity of Biota in *in situ* Condition at Alang *A. Tewari, H. V. Joshi, R. H. Trivedi, V. G. Sravankumar, C. Raghunathan, Y. Khambhaty, O. S. Kotiwar and S. K. Mandal*
	470	Flood Defence in the Blackwater Estuary, Essex, UK: The Impact of Sedimentological and Geochemical Changes on Salt Marsh Development in the Tollesbury Managed Realignment Site *Y.-H. Chang, M. D. Scrimshaw, C. L. MacLeod and J. N. Lester*
	482	Trace Metals in Estuarine Sediments from the Southwestern Spanish Coast *F. Rui*
	491	Gulfwatch: Monitoring Spatial and Temporal Patterns of Trace Metal and Organic Contaminants in the Gulf of Maine (1991–1997) with the Blue Mussel, *Mytilus edulis* L *M. E. Chase, S. H. Jones, P. Hennigar, J. Sowles, G. C. H. Harding, K. Freeman, P. G. Wells, C. Krahforst, K. Coombs, R. Crawford, J. Pederson and D. Taylor*
	506	Improved Sea Ice Parcel Trajectories in the Arctic via Data Assimilation *W. N. Meier and J. A. Maslanik*
	513	Livestock Wastewater Treatment by a Mangrove Pot-cultivation System and the Effect of Salinity on the Nutrient Removal Efficiency *Y. Ye, N. F. Y. Tam and Y. S. Wong*
Baseline	522	Metals and Organochlorines in Pelagic Cetaceans Stranded on the Coasts of England and Wales *R. J. Law, M. E. Bennett, S. J. Blake, C. R. Allchin, B. R. Jones and C. J. H. Spurrier*

Number 7

Editorial	527	Another Look at Coral Reef Degradation *H. T. Yap*
News	528	UK Nuclear Power Generator Fined; Wild Atlantic Salmon Threatened With Extinction; UK Alien Crayfish Threat
	529	Call to Get Tough With Pirate Fishing; More Protection and More Money for Great Barrier Reef
	530	Ocean Whitecaps Impact Global Temperatures; NOAA Buoy to Keep an Eye on Coral Reefs; Reprieve For White Abalone
	531	No Discharge Area For Cape Cod; US Coastal Waters Get Clean Bill of Health; Order to Stop Alaskan Fish Pong
Viewpoints	532	Comparing Episodic, Chronic, Fishing, and Non-fishing Impacts on Resource Populations *T. P. O'Connor*
	536	Fate and Effects of Polydimethylsiloxane (PDMS) in Marine Environments *C. Stevens, D. E. Powell, P. Mäkelä and C. Karman*
Reports	544	Accumulation of Polychlorinated Dibenzo-*p*-Dioxins and Dibenzofurans in Sediments of the Venice Lagoon and the Industrial Area of Porto Marghera *M. Frignani, L. G. Bellucci, C. Carraro and M. Favotto*
	554	Temporal Variation in the Diversity and Cover of Sessile Species in Rocky Intertidal Communities Affected by Copper Mine Tailings in Northern Chile *J. M. Fariña and J. C. Castilla*
	569	Magnetic Properties and Heavy-metal Contents of Contaminated Seabed Sediments of Penny's Bay, Hong Kong *L. S. Chan, S. L. Ng, A. M. Davis, W. W. S. Yim and C. H. Yeung*
	584	A Pre- and Post-MARPOL Annex V Summary of Hawaiian Monk Seal Entanglements and Marine Debris Accumulation in the Northwestern Hawaiian Islands, 1982–1998 *J. R. Henderson*
	590	An Oil Spill–Food Chain Interaction Model for Coastal Waters *K. Y. H. Gin, Md. K. Huda, W. K. Lim and P. Tkalich*
	598	Metal Dynamics in an Antarctic Food Chain *T. Nygård, E. Lie, N. Rov and E. Steinnes*
	603	DNA Adduct Formation and DNA Strand Breaks in Green-lipped Mussels (*Perna viridis*) Exposed to Benzo[a]pyrene: Dose- and Time-Dependent Relationships *E. W. K. Ching, W. H. L. Siu, P. K. S. Lam, L. Xu, Y. Zhang, B. J. Richardson and R. S. S. Wu*
Baseline	611	Polychlorinated Biphenyls in Marine Sediments of Admiralty Bay, King George Island, Antarctica *R. C. Montone, S. Taniguchi and R. R. Weber*
	615	Processes Influencing Mercury Speciation and Bioconcentration in the North Inlet-Winyah Bay Estuary, South Carolina, USA *J. L. Guentzel and Y. Tsukamoto*

Number 8

Editorial

621 Still Worrying with Trace Chemical Pollution
J. O. Grimalt, F. Elbaz-Poulichet and E. Lipiatou

623 A Reassessment of Trace Metal Budgets in the Western Mediterranean Sea
F. Elbaz-Poulichet, C. Guieu and N. H. Morley

628 Deposition of Semi-Volatile Organochlorine Compounds in the Free Troposphere of the Eastern North Atlantic Ocean
B. L. van Drooge, J. O. Grimalt, C. J. Torres-Garća and E. Cuevas

635 Marine Risk Assessment: Linear Alkylbenzenesulponates (LAS) in the North Sea
A. Temara, G. Carr, S. Webb, D. Versteeg and T. Feijtel

643 Cellular and Molecular Responses to Endocrine-Modulators and the Impact on Fish Reproduction
A. Arukwe

656 Contaminant-stimulated Reactive Oxygen Species Production and Oxidative Damage in Aquatic Organisms
D. R. Livingstone

667 Effects of PCBs on Reactive Oxygen Species (ROS) Production by the Immune Cells of *Paracentrotus lividus* (Echinodermata)
G. Coteur, B. Danis, S. W. Fowler, J.-L. Teyssié, Ph. Dubois and M. Warnau

General Papers
News

673 Sellafield Plans Increases in Discharges of Nuclear Waste to Sea; Global Warming Natural After All; Bleaching May Help Corals Survive

674 Rare Scottish Reefs Threatened; South African Penguins Successful Rehabilitation; Salmon Farming First for South Africa

675 Australian National Coastal Rescue Programme; Direct Action Success Against Zebra Mussels

676 High PCB Levels Make it Hard to Remember; Wetlands Could Rescue the Gulf of Mexico; California Sea Otters' Population Remains Roughly Stable

Reports

677 Antifouling Paint Booster Biocides in the UK Coastal Environment and Potential Risks of Biological Effects
K. V. Thomas, T. W. Fileman, J. W. Readman and M. J. Waldock

689 The Effect of TBT on the Structure of a Marine Sediment Community – a Boxcosm Study
I. Dahllöf, S. Agrenius, H. Blanck, P. Hall, K. Magnusson and S. Molander

696 An Assessment of the Potential Use of the Nematode to Copepod Ratio in the Monitoring of Metals Pollution. The Chañaral Case
M. R. Lee, J. A. Correa and J. C. Castilla

Number 9

Editorial

703 Baseline changes hands: some reminders of format and content
Dr. Bruce J. Richardson

News	705	New UK Guidelines For Radioactive Waste Discharge; Galapagos Sea Lion Massacre; US To Halt Shark Finning
	706	New Estimates on Global Warming; IWC Meeting Causes Furore
	707	Gulf of Mexico Dead Zone Grows; New Method For Detecting Metal Pollutants; Largest National US Marine Sanctuary For Florida
	708	US Wetland Oil spill Results in Fine
News-in-Brief	708	United States; England
Viewpoint	709	Assessment of Economic Losses from Marine Pollution: An Introduction to Economic Principles and Methods *D. D. Ofiara*
Reports	726	Organic Carbon Flow in the Ob, Yenisey Rivers and Kara Sea of the Arctic Region *R. V. Krishnamurthy, M. Machavaram, M. Baskaran, J. M. Brooks and M. A. Champ*
	733	Polychaetes as Indicators of Environmental Disturbance on Subarctic Tidal Flats, Iqaluit, Baffin Island, Nunavut Territory *G. M. Samuelson*
	742	Bioindication Potential of Carbonic Anhydrase Activity in Anemones and Corals *A. L. Gilbert and H. M. Guzmán*
	745	Preliminary Results of Biomarker Responses in Zooplankton of Brackish Environments *M. C. Fossi, R. Minutoli and L. Guglielmo*
	749	Effects of Fish Farm Loadings on Seagrass (*Posidonia oceanica*) Distribution, Growth and Photosynthesis *J. M. Ruiz, M. Pérez and J. Romero*
	761	The Significance of Imposex Levels and TBT Contamination in the Red Whelk, *Neptunea antiqua* (L.) from the Offshore Irish Sea *A. J. Power and B. F. Keegan*
	773	Effects of Chitin on Microbial Emulsification, Mineralization Potential, and Toxicity of Bunker C Fuel Oil *S. A. Richmond, J. E. Lindstrom and J. F. Braddock*
Baseline	780	Organochlorine and Trace Element Contamination in Bottlenose Dolphins (*Tursiops truncatus*) from the South China Sea *E. C. M. Parsons and H. M. Chan*
	786	Baseline Study of Submerged Marine Debris at Beaches in Curaçao, West Indies *I. Nagelkerken, G. A. M. T. Wiltjer, A. O. Debrot and L. P. J. J. Pors*
Note	790	Imposex in Gastropods from Argentina (South-Western Atlantic) *P. E. Penchaszadeh, A. Averbuj and M. Cledón*
Book Reviews	792	

Number 10

Editorial	793	Special Issues *C. Sheppard*

News	795	Massive Numbers of Turtles Dying; UK Cockle Fishery to Reopen; Giant Foam Fine; Australian Migratory Birds Fly More Safely
	796	Study Could Reduce Chance of Offshore Oil Leaks; Red Tides and Dust Storms
	797	The Open Ocean Teems with Natural Fertilizers; Improved Water Quality for the Caribbean; $1 Million in Penalties Against Company
News-in-Brief	798	The Gambia; US; Australia; Nigeria; UK
Viewpoint	799	Rapid Toxicity Assessment and Biomonitoring of Marine Contaminants – Exploiting the Potential of Rapid Biomarker Assays and Microscale Toxicity Tests *P. G. Wells, M. H. Depledge, J. N. Butler, J. J. Manock and A. H. Knap*
Reports	805	Detecting Organic Tracers from Biomass Burning in the Atmosphere *B. R. T. Simoneit and V. O. Elias*
	811	Lead Uptake, Distribution, and Effects in Two Dominant Salt Marsh Macrophytes, *Spartina alterniflora* (Cordgrass) and *Phragmites australis* (Common Reed) *L. Windham, J. S. Weis and P. Weis*
	817	Biomarkers of Sublethal Stress in the Soft-sediment Bivalve *Austrovenus stutchburyi* Exposed in-situ to Contaminated Sediment in an Urban New Zealand Harbour *S. De Luca-Abbott*
	826	Response of an Estuarine Benthic Community to Application of the Pesticide Carbaryl and Cultivation of Pacific Oysters (*Crassostrea gigas*) in Willapa Bay, Washington *B. R. Dumbauld, K. M. Brooks and M. H. Posey*
	845	Mutagenicity of Baltic Seawater and the Relation to Certain Chemical and Microbiological Parameters *B. P. Zietz, G. Nordholt, G. Ketseridis and E. H. Pfeiffer*
	852	Incorporation of Organic Tritium (^{3}H) by Marine Organisms and Sediment in the Severn Estuary/Bristol Channel (UK) *D. McCubbin, K. S. Leonard, T. A. Bailey, J. Williams and P. Tossell*
	864	Spatial and Temporal Variance of River Discharge on Okinawa (Japan): Inferring the Temporal Impact on Adjacent Coral Reefs *K. West and R. van Woesik*
	873	Incidence of Imposex in *Thais orbita* from Port Phillip Bay (Victoria, Australia), Following 10 Years of Regulation on Use of TBT *C. M. Rees, B. A. Brady and G. J. Fabris*
	879	Oestrogens have no Hormonal Effect on the Development and Reproduction of the Harpacticoid Copepod *Nitocra spinipes* *M. Breitholtz and B.-E. Bengtsson*
	887	Biomarkers of Exposure and Effect in Flounder (*Platichthys flesus*) Exposed to Sediments of the Adriatic Sea *L. Viganò, A. Arillo, C. Falugi, F. Melodia and S. Polesello*
	895	The *Aegean Sea* Oil Spill in the Galicia Coast (NW Spain). I. Distribution and Fate of the Crude Oil and Combustion Products in Subtidal Sediments *D. Pastor, J. Sanchez, C. Porte and J. Albaigés*

905 Total and Organic Mercury in the Black Sea Harbour Porpoise *Phocoena phocoena relicta*
C. R. Joiris, L. Holsbeek, D. Bolba, C. Gascard, T. Stanev, A. Komakhidze, W. Baumgärtner and A. Birkun

912 Distribution of ^{137}Cs in the Lena River Estuary– Laptev Sea System
A. Johnson-Pyrtle and M. R. Scott

927 On the Disposal of Contaminated Milk in Coastal Waters
A. J. Elliott, B. T. Wilkins and P. Mansfield

935 Identification of Major Water-Soluble Fluorescent Components of Some Petrochemicals
M. Groner, A. R. Muroski and M. L. Myrick

942 Detecting the Zambezi River Plume using Observed Optical Properties
J. R. Siddorn, D. G. Bowers and A. M. Hoguane

951 Polycyclic Aromatic Hydrocarbon Pollution in Native and Caged Mussels
M. T. Piccardo, R. Coradeghini and F. Valerio

957 Concentrations of Methyl-*Tert*-Butyl Ether (MTBE) in Inputs and Receiving Waters of Southern California
J. S. Brown, S. M. Bay, D. J. Greenstein and W. R. Ray

967 Distribution of Dissolved and Labile Particulate Trace Metals in the Overlying Bottom Water in the Vistula River Plume (Southern Baltic Sea)
A. Sokolowski, M. Wolowicz and H. Hummel

981 Long-term Changes in Water Quality and Phytoplankton Characteristics in Port Shelter, Hong Kong, from 1988–1998
Y.-K. Yung, C. K. Wong, K. Yau and P. Y. Qian

Baseline 993 Baseline concentrations of total mercury and methylmercury in salmon returning via the Bering Sea (1999–2000)
X. Zhang, A. Sathy Naidu, J. J. Kelley, S. C. Jewett, D. Dasher and L. K. Duffy

Book Reviews 998

Number 11

Editorial 1001 Keeping the Focus
C. R. Sheppard

News 1003 New Data For UK On-Line Pollution Inventory; Thames Water Top UK Polluter; Australia to Assess New Areas For Marine Conservation

1004 Marine Conservation Action in the Philippines; New Zealand Antarctic Project; Great Lakes Cleansing Themselves

1005 Pollution Prevention Grants For Rhode Island; Alaska's Ocean Health Under Scrutiny

News-in-Brief 1006 Cook Islands; USA; South Africa; Wales

Viewpoint 1007 Can Saltwater Toxicity be Predicted from Freshwater Data?
K. M. Y. Leung, D. Morritt, J. R. Wheeler, P. Whitehouse, N. Sorokin, R. Toy, M. Holt and M. Crane

1014 What's in a Name?
B. Morton

Reports

1017 Trace Contaminant Concentrations in the Kara Sea and its Adjacent Rivers, Russia
J. L. Sericano, J. M. Brooks, M. A. Champ, M. C. Kennicutt II and V. V. Makeyev

1031 Litter Burial and Exhumation: Spatial and Temporal Distribution on a Cobble Pocket Beach
A. T. Williams and D. T. Tudor

1040 The Effects of Dredge-Spoil Dumping on a Shallow Water Soft-Sediment Community in the Solitary Islands Marine Park, NSW, Australia
S. D. A. Smith and M. J. Rule

1049 Comparative Concentrations of Metals in Marine Species from French Frigate Shoals, North Pacific Ocean
X.-S. Miao, L. Ann Woodward, C. Swenson and Q. X. Li

1055 Detection of Anthropogenic Cu, Pb and Zn in Continental Shelf Sediments off Sydney, Australia – a New Approach Using Normalization with Cobalt
C. Matthai and G. Birch

1064 Aliphatic and Aromatic Hydrocarbons in Sediments of Santos and Cananéia, SP, Brazil
F. N. Nishigima, R. L. Weber and M. C. Bícego

1073 Sources and Geochemical Constraints of Polycyclic Aromatic Hydrocarbons (PAHs) in Sediments and Mussels of two Northern Irish Sea-loughs
J. Guinan, M. Charlesworth, M. Service and T. Oliver

1082 The Effects of Freshwater Flushing on Marine Heterotrophic Protists – Implications for Ballast Water Management
N. Hülsmann and B. S. Galil

1087 Variation of Antioxidant Enzyme Activities of Sprat (*Sprattus sprattus*) Larvae and Organic Contaminant Levels in Mixed Zooplankton from the Southern North Sea
L. D. Peters, C. Porte and D. R. Livingstone

1096 Antibiotic Resistant Bacteria in Fish from the Concepción Bay, Chile
C. D. Miranda and R. Zemelman

1103 Effects of Chromated Copper Arsenate (CCA) Wood Preservative on Early Fouling Community Formation
C. J. Brown, R. A. Eaton and C. H. Thorp

1114 The Effect of Accidental Sulphuric Acid Leaking on Metal Distributions in Estuarine Sediment of Patos Lagoon
N. Mirlean, B. Baraj, L. F. Niencheski, P. Baisch and D. Robinson

1118 Developing a Method to Track Oil and Gas Produced Water Discharges in Estuarine Systems Using Salinity as a Conservative Tracer
D. W. Woodall, R. P. Gambrell, N. N. Rabalais and R. D. DeLaune

1128 Tributyltin along the Coasts of Corsica (Western Mediterranean): A Persistent Problem
P. Michel, B. Averty, B. Andral, J.-F. Chiffoleau and F. Galgani

1133 Oxygen, Sulphide and Nutrient Uptake of the Mangrove Mud Clam *Andontia edentula* (Family: Lucinidae)
M. J. H. L. Lebata

1139 Distribution and Partitioning of Polycyclic Aromatic Hydrocarbons (PAHs) in Different Size Fractions in Sediments from Boston Harbor, United States
X-C Wang, Y-X Zhang and R. F. Chen

1150 Effect of Sampling Frequency on Shoreline Microbiology Assessments
M. K. Leecaster and S. B. Weisberg

1155 Public Perceptions of Environmental Quality: A Survey Study of Beach Use and Perceptions in Los Angeles Country
L. Pendleton, N. Martin and D. G. Webster

1161 The Interpretation of Body Trace Metal Concentrations in Neogastropods from Hong Kong
G. Blackmore and B. Morton

1169 A Statistical Riverine Litter Propagation Model
C. E. Balas, A. T. Williams, S. L. Simmons and A. Ergin

1177 Standing Stock and Production Rate of Phytoplankton and a Red Tide Outbreak in a Heavily Eutrophic Embayment, Dokai Bay, Japan
K. Tada, M. Morishita, K. Hamada, S. Montani and M. Yamada

Baseline 1187 Nutrients, Trace Metals, and Organic Contaminants in Banten Bay, Indonesia
K. Booij, M. T. J. Hillebrand, R. F. Nolting and J. van Ooijen

1190 Metallic Elements and Metal Poisoning Among White-tailed Sea Eagles from the Baltic South Coast
J. Falandysz, H. Ichihashi, K. Szymczyk, S. Yamasaki and T. Mizera

Book reviews 1194

Correspondence 1196

Number 12

Supplemental Articles
Viewpoint 1199 The Main Issues Affecting Coasts of the Indian and Western Pacific Oceans: A Meta-analysis from Seas at the Millennium
C. Sheppard

Reports 1208 St. Vincent and the Grenadines
A. P. Mills

1221 Honduras: Caribbean Coast
A. R. Harborne, D. C. Afzal and M. J. Andrews

1236 South China Sea
B. Morton and G. Blackmore

1264 Kenya
D. O. Obura

General Papers

Editorial 1279 How Toxic is Toxic?
P. M. Chapman

News 1281 England's Beaches Improve.....; .....UK Rivers and Estuaries Not So Bad Either; Green Light For UK Radioactive Waste Disposal

1282 Call For Urgent Action to Protect Wadden Sea; Australia Protects World's Largest Living Fish

1283 Ocean Waves Getting Bigger; Scallop Clue to Antarctic Warming; New Money for Long Island Research

News-in-Brief: 1284 Hong Kong; Kuwait; Norway; France; Vietnam

Viewpoint 1285 Seabirds at Risk around Offshore Oil Platforms in the North-west Atlantic
F. K. Wiese, W. A. Montevecchi, G. K. Davoren, F. Huettmann, A. W. Diamond and J. Linke

Reports 1291 Levels of Organochlorine Pesticide Residues in Some Organs of the Ganges Perch, *Lates calcarifer*, from the Ganges–Brahmaputra–Meghna Estuary, Bangladesh
S. M. A. Jabber, Y. S. A. Khan and M. S. Rahman

1297 A Comparison of Plastic and Plankton in the North Pacific Central Gyre
C. J. Moore, S. L. Moore, M. K. Leecaster and S. B. Weisberg

1301 Derelict Fishing Gear in the Northwestern Hawaiian Islands: Diving Surveys and Debris Removal in 1999 Confirm Threat to Coral Reef Ecosystems
M. J. Donohue, R. C. Boland, C. M. Sramek and G. A. Antonelis

1313 Hepatic 7-ethoxyresorufin *O*-deethylase Activity in Eel (*Anguilla anguilla*) from The Thames Estuary and Comparisons with other United Kingdom Estuaries
A. Doyotte, C. L. Mitchelmore, D. Ronisz, J. McEvoy, D. R. Livingstone and L. D. Peters

1323 Persistent Organochlorine Residues and Toxic Evaluation of Polychlorinated Biphenyls in Sharks from the Mediterranean Sea (Italy)
M. M. Storelli and G. O. Marcotrigiano

1330 Marine Debris and Human Impacts on Sea Turtles in Southern Brazil
L. Bugoni, L. Krause and M. V. Petry

1335 Hydrocarbons in Surface Sediments from the Changjiang (Yangtze River) Estuary, East China Sea
I. Bouloubassi, J. Fillaux and A. Saliot

1347 Iodine-129 Concentrations in Marginal Seas of the North Pacific and Pacific-influenced Waters of the Arctic Ocean
L. W. Cooper, G. H. Hong, T. M. Beasley and J. M. Grebmeier

1357 Polycyclic Aromatic Hydrocarbon (PAHs) and Hopanes in Stranded Tar-balls on the Coasts of Peninsular Malaysia: Applications of Biomarkers for Identifying Sources of Oil Pollution
M. P. Zakaria, T. Okuda and H. Takada

1367 Effects of Nutrients on Crude Oil Biodegradation in the Upper Intertidal Zone
Y.-S. Oh, D.-S. Sim and S.-J. Kim

1373 Lysosomal Membrane Stability and Metallothioneins in Digestive Gland of Mussels (*Mytilus galloprovincialis* Lam.) as Biomarkers in a Field Study
S. Petrović, B. Ozretić, M. Krajnović-Ozretić, and D. Bobinac

1379 Influence of Algal Farming on Fish Assemblages
K. C. Bergman, S. Svensson and M. C. Öhman

1390 Variations in Cardiac Activity Following Acute Exposure to Copper in Three Co-occurring but Differently Zoned Mediterranean Limpets
M. De Pirro, G. Chelazzi, F. Borghini and S. Focardi

1397 The Contribution of Ecdysis to the Fate of Copper, Zinc and Cadmium in Grass Shrimp, *Palaemonetes Pugio* Holthius
K. A. Keteles and J. W. Fleeger

Baseline

1403 Mercury in Fish from Patos and Mirim Lagoons, Southern Brazil
L. F. Niencheski, H. L. Windom, B. Baraj, D. Wells and R. Smith

1407 Accumulation of Organic Matter, Heavy Metals and Organic Compounds in Surface Sediments along the Nervión Estuary (Northern Spain)
M. J. Belzunce, O. Solaun, J. Franco, V. Valencia and Á. Borja

1411 The Radionuclide Content of Seaweeds and Seagrasses Around the Coast of Oman and the United Arab Emirates
C. C. Goddard and B. P. Jupp

1417 Mapping the Pollution Gradient of the Saronikos Gulf Benthos Prior to the Operation of the Athens Sewage Treatment Plant, Greece
A. Makra, M. Thessalou-Legaki, J. Costelloe, A. Nicolaidou and B.F. Keegan

Book Reviews 1420